

KL-7000

Owner's manual



CASIO®

Introduction

Congratulations on your selection of the CASIO KL-7000 Label Printer. The CASIO Label Printer makes it possible for you to print adhesive labels for a wide variety of applications such as name tags, cassette tape labels, floppy disks, binders, and other applications.

You can produce attractive original labels thanks to such features as:

- Variable tape sizes (6mm, 9mm, 12mm, 18mm)
- Two fonts (serif, sans-serif)
- Four character styles (normal, outline, shadow, raised)
- Various effects
- Illustrations
- Quick formats and preset layouts

You can even store data in memory for instant recall when you need it.

All of this makes the CASIO Label Printer the perfect tool for just about all of your labeling needs!

Important!

- Contact a nearby dealer whenever you require servicing.
- Note that the manufacturer shall not be held liable for any losses, or for many claims by third parties which may arise out of the use of this product.
- Note that the manufacturer shall not be held liable for any damages incurred as a result of data losses caused by malfunctions, repairs, or interruptions of power supply.
- It is up to the user to keep backup records of important data.

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Part 1

Getting Acquainted

This part of the manual provides you with important information you need to know in order to use the Label Printer to its full potential. Be sure to read it carefully before using the Label Printer for the first time.

Important Precautions

- Keep your Label Printer out of areas subject to temperature extremes, moisture and direct sunlight. The recommended temperature range is 10° to 35°C (50° to 95°F).



- Don't let coffee, juice or other liquids splash onto the Label Printer.



- Never let paper clips, pins or other foreign objects get into the tape outlet slot or printer of the Label Printer.



- Do not pile heavy objects on top of the Label Printer.



- Never try to take the Label Printer apart or attempt your own maintenance.



- Do not drop your Label Printer, and avoid strong impact.



- Do not pull on the tape or try to force it back into the Label Printer.



- Do not use benzine, thinner, or other volatile chemicals to clean the exterior of the Label Printer. Use a soft dry cloth or a cloth dampened with a weak solution of a mild neutral detergent and water. Wring the cloth out until all excess moisture is removed.



- A dirty printer head can cause printing to become smudged. When this happens, clean off the printer head by wiping it with a cotton swab moistened with alcohol (page 65).

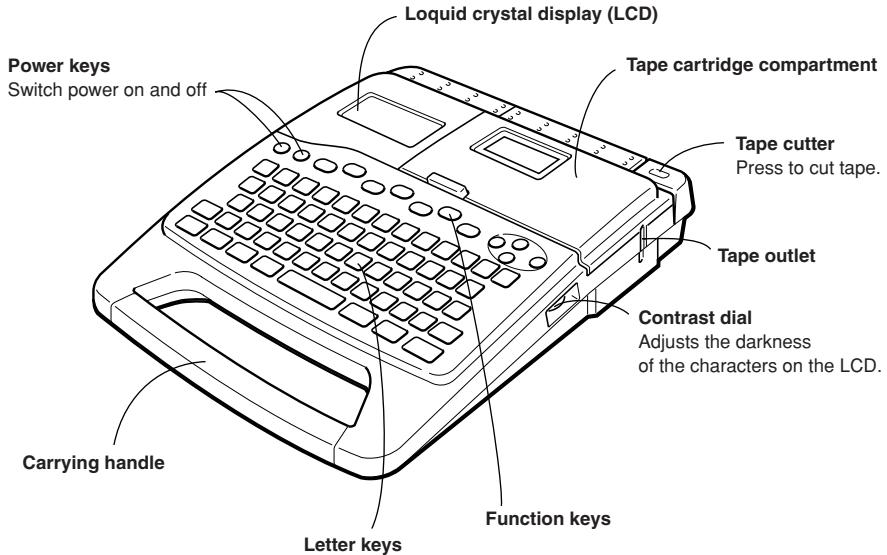


- Use of the Label Printer next to a television or radio may interfere with reception.

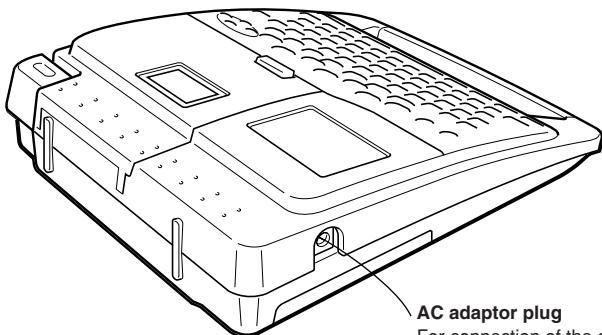


General Guide

Front



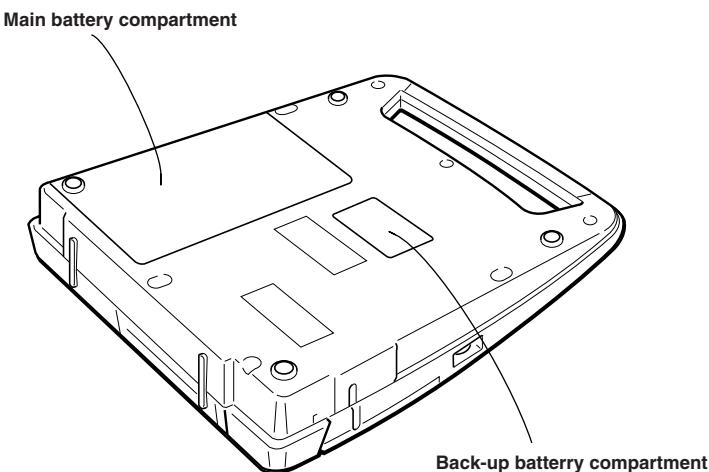
Back/Left Side



AC adaptor plug

For connection of the optionally available AC adaptor.

Bottom



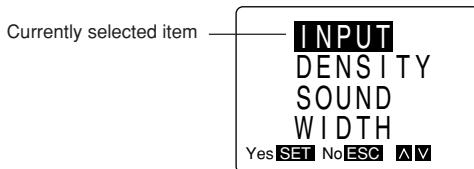
Main battery compartment

Back-up battery compartment

Label Printer Menus

Label Printer operation is designed to be as simple as possible, thanks to on-screen menus that you can use to select the settings you need. Each menu is described in detail in the sections that follow in this manual, but note the following general points.

- The item that is highlighted in a menu is the one that is currently selected.



- Use **▲** and **▼** to move the highlighting up and down and change the selected item.
- Press **SET** to execute the highlighted item, or **ESC** to exit the displayed menu (and return to the previous menu or screen) without selecting anything.
- When you press **SET** to execute a menu item, the Label Printer either moves on to the next menu, or it executes the selected function and returns to the text input screen that you started from.

Part 2

Getting Ready

This part of the manual tells you how to load batteries and the tape cartridge, and how to perform other basic setups for the Label Printer.

Important!

Be sure to read this section before attempting to use the Label Printer.

Power Supply

The Label Printer can be powered by eight AA-size batteries or an optional AC adaptor (AD-A95100). A CR2032 battery is also used as a memory back-up power supply.

Replacing Batteries

A handy low battery power indicator lets you know when battery power is getting too low for proper operation. The message **LOW BATTERY** appears on the display if battery power is low when you perform any of the following operations.

- Switching power on
- Executing a print operation
- Executing a tape feed operation

When the **LOW BATTERY** message appears, press **ESC** to clear it from the display. You should still be able to perform some Label Printer operations, but some power intensive operations (like printing or tape feed) may become impossible if battery power is too low. In any case, you should replace batteries as soon as possible or switch to the AC adaptor as soon as possible after the **LOW BATTERY** message appears.

Important!

Batteries can burst or leak and damage your unit if you use them the wrong way. Note the following important points.

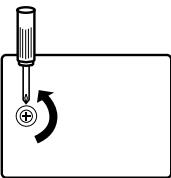
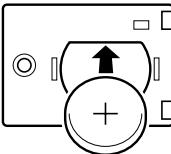
- Be sure that the plus (+) and minus (-) sides of each battery are facing correctly.
- Never mix batteries of different types
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you do not plan to use the unit for a long time.
- Be sure to replace the main battery in accordance with the battery life noted on the side of the battery itself, and the back-up battery once every 1 year.

Warning!

- Never recharge the batteries you use with this unit.
- Do not expose batteries to direct heat, do not short circuit them, and do not try to take them apart.
- **Keep batteries out of the reach of small children. If swallowed, consult with a physician immediately.**
- Low battery power is indicated by poor print quality or power switching off while printing is in progress.

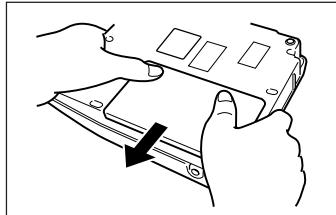
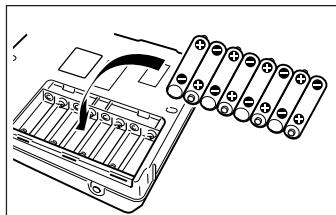
To replace the memory back-up battery

Before using the Label Printer for the first time, be sure that you first use the following procedure to install the memory back-up battery that comes with it. Data stored in memory will be lost if you do not load this battery.

1. Switch power off.
2. Use a small phillips head screwdriver to loosen the screw that secures the back-up battery compartment cover in place, and remove the cover.

3. Wipe off the surfaces of a CR2032 battery with a soft dry cloth, and install it with its plus (+) side facing up (so you can see it).
4. Carefully replace the battery compartment cover and secure it in place with the screw.


- You should use the above procedure to replace the memory back-up battery once a year.

To replace the main batteries

1. Switch power off.
 - If you are using the AC adaptor to power the unit, you should also unplug the adaptor from the Label Printer.
2. Open the battery compartment cover on the back of the Label Printer by sliding it in the direction indicated by the arrow.

3. Remove all eight of the old batteries.
4. Load a set of eight new batteries into the battery compartment, making sure that their positive (+) and negative (-) ends are facing in the correct directions.

5. Replace the battery compartment cover.

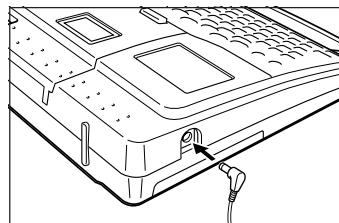
AC Adaptor

Note the following important precautions when using an AC adaptor to power your Label Printer.

- Use only a genuine CASIO AD-A95100 AC adaptor with the same voltage rating as the household current in your area. Using a wrong adaptor can damage your Label Printer.
- Be sure to switch the Label Printer off before you connect the adaptor. Do not switch power on until the adaptor is connected to the Label Printer and plugged into an AC outlet.

To connect the AC adaptor

Connect the AC adaptor to the Label Printer as illustrated on the right. Plug the other end into a standard household AC outlet.



Switching Power On and Off

Press **ON** to switch power on, and **OFF** to switch power off.

Important!

If you are using the Label Printer for the first time, you should use the procedure described under "Resetting the Memory" to switch power on.

Resetting the Memory

You should reset the memory of the Label Printer before using it for the first time, after you have not used it for a long time, or if nothing happens when you switch power on even after you change the batteries.

Important!

Resetting Label Printer memory clears the memory of all input data.

To reset the memory

1. Make sure that Label Printer power is off.
2. While holding down the **PRINT** and **ESC** keys, press **ON** to switch power on.

INITIAL?

Yes **SET** No **ESC**

3. Press **SET** to initialize the Label Printer or **ESC** to abort the operation without initializing anything.
 - If you press **SET**, the initial reset screen appears.
- See “Initial Settings” for the initial default settings of the Label Printer following the reset operation.

Power On Recall Function

Whenever you switch your Label Printer off, it stores the text that is currently on the display. Immediately after you switch power on, you can recall the last text displayed by pressing **SET**.

Important!

You can recall text by pressing **SET** when the text input display is clear, immediately after switching power on only. Even if you input text and then delete it, pressing **SET** will not recall stored text.

Auto Power Off Function

If you do not perform any key operation for about six minutes, the Label Printer automatically switches power off. To restore power, press **ON**.

- After you restore power, you can recall the last text that you displayed by pressing **SET**. See “Power On Recall Function” for details.

Tape Cartridges

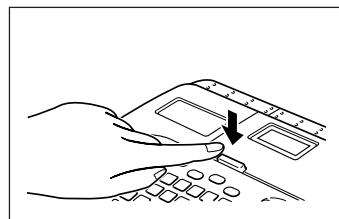
Use the procedures described below to load tape cartridge into the Label Printer. After you load the tape cartridge, be sure to use the procedure described under “To specify the tape width” to tell the Label Printer what width of tape you are using.

Important!

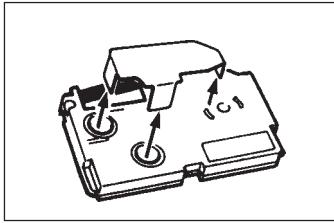
- Never try to push the tape back into the cassette. Once tape is out of the cassette, there is no way to wind it back in. Trying to do so can cause operational problems with the Label Printer.
- Always make sure that Label Printer power is switched off before you replace the tape cartridge.

To load a tape cartridge

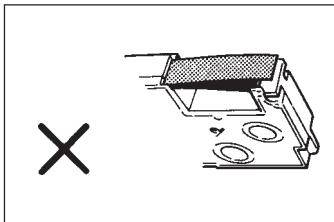
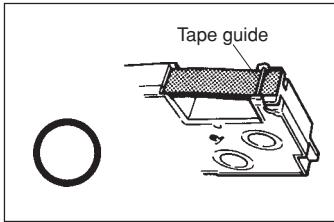
1. Make sure that the power of the Label Printer is switched off.
2. Press the tape cartridge compartment cover release and open the compartment cover.
 - If there is a cartridge already installed in the unit, remove it by grasping the tape cartridge on both sides with your thumb and forefinger and lifting it straight up.



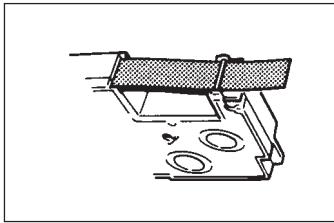
3. Remove the stopper from a new tape cartridge and check to see that the tape is ready to use.



- Make sure that the tape is under the tape guide and that it is not bent or twisted.

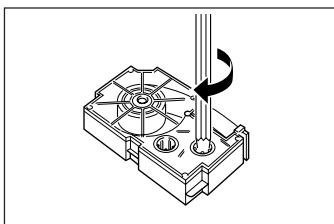


- Make sure that the tape does not extend too far past the tape guide. If it does, cut off the end with a pair of scissors.

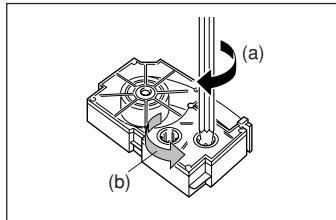


4. Use a pencil or some other thin object to take up slack in the ink ribbon as shown in the illustration. Note that the tape does not move at this time.

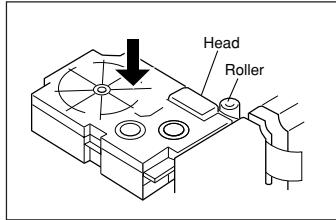
- If the ink ribbon is slack when you load it into the Label Printer, it can break or cause some other problem.



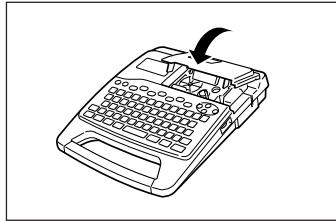
- Be sure to turn the ink ribbon take up spool only in the direction indicated by the arrow (a).
- Turn the spool until the other spool (b) starts turning in the direction noted by the arrow. This indicates there is no slack in the ribbon.



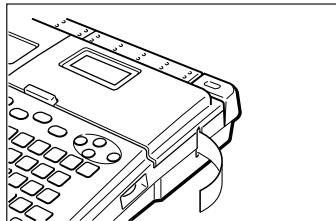
5. Load the tape cartridge into the Label Printer, making sure that the tape and ink ribbon pass between the head and roller.



6. Close the tape cartridge compartment cover.



7. Switch on Label Printer power and press **FUNC** and then **FEED** two or three times to make sure that the tape comes out without any problem.
 - If the tape does not come out normally, switch off power and start again from step 1 above.



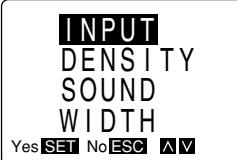
To specify the tape width

Important!

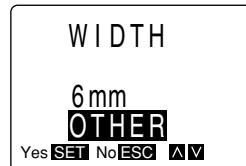
- When using 6mm tape, certain character sizes and layouts can cause characters to run off the top or bottom of the tape.
- Be sure to specify 6mm tape whenever you are using it.
- In addition to the following tape size specification procedure, you can also specify 6mm tape by holding down the **6** key while pressing **ON** to switch power on. To specify another tape size (other than 6mm) you must use the following procedure.

1. Switch power on.

2. Press **SET UP** to display the setup menu.



3. Use **▲** and **▼** to highlight **WIDTH**, and then press **SET**.



4. Use **▲** and **▼** to select 6mm (to specify 6mm wide tape) or OTHER (to specify another width), and then press **SET**.

Display Contrast

Rotate the dial on the side of the Label Printer to adjust display contrast.

Sound Effects

The Label Printer is equipped with sound effects that sound when you switch power on and when an illegal operation is attempted. Normally, sound effects are switched on whenever you switch power on, but you can use the following procedure to cancel the sound effects.

To cancel sound effects when switching power on

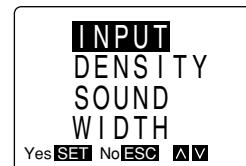
Hold down the **ESC** key, switch power on.

Sound effects remain switched off until you switch them back on again (using the procedure described below), or until you switch power off and then on again.

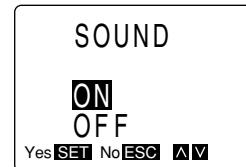
Use the following procedure to switch sound effects on and off.

To switch sound effects on and off

1. Switch power on.
2. Press **SET UP** to display the setup menu.



3. Use **▲** and **▼** to highlight **SOUND**, and then press **SET**.



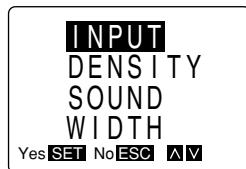
4. Use ▲ and ▼ to select OFF (to switch the beep tone off) or ON (to switch the beep tone on), and then press **SET**.

Setting the message language

The Label Printer lets you specify English, German, French, Italian, or Spanish as the language to use for display messages.

To set the message language

1. Switch power on.
2. Press **SET UP** to display the setup menu.

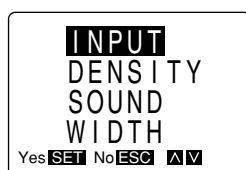


3. Press ▼ and ▲ to highlight LANGUAGE, and then press **SET**.
 - Note that the language option does not appear immediately on the screen when you first display the set up menu. This is because there are more than four items in the menu. Use ▼ to scroll down four times to make the LANGUAGE option appear.
4. Use ▲ and ▼ to highlight the language you want to use, and then press **SET** to apply the setting and return to the text input screen.
 - Since there are five languages, they do not all fit on a single screen. To view the language at the bottom of the menu (ESPAÑOL), press ▼ four times.

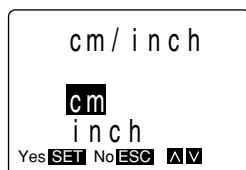


Setting the unit of measurement

1. Switch power on.
2. Press **SET UP** to display the setup menu.



3. Press ▼ and ▲ to highlight cm/inch, and then press **SET**.
 - Note that the cm/inch option does not appear immediately on the screen when you first display the set up menu. This is because there are more than four items in the menu. Use ▼ to scroll down five times to make the cm/inch option appear.
4. Use ▼ and ▲ to highlight the measurement unit you want to use, and then press **SET** to apply the setting and return to the text input screen.

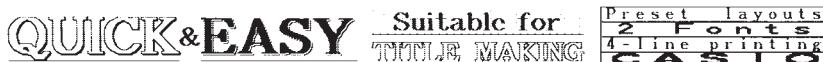


Demo Print

Use one of the following procedures to produce a print that demonstrates some of the features of the Label Printer. The procedure you should use depends on the size of the tape you are using.

To produce a demo print using tape other than 6mm

1. Press **ON** to switch power on.
2. Press **PRINT**.
3. Press **SET**.



To produce a demo print using 6mm tape

1. Holding down the **6** key, press **ON** to switch power on.
2. Press **PRINT**.
3. Press **SET**.



Important!

You can produce a demo print when the text input display is clear, immediately after switching power on only. Even if you input text and then delete it, pressing **PRINT** will not produce a demo print.

- If you experience problems with printing, check your tape cartridge and power supply, and try again.

Part 3

Inputting Characters, Symbols, and Illustrations

This part of the manual tells you how to input characters. To make things easier to understand, we call everything you input a character regardless of whether it is actually a letter, number, or symbol. Explanations here all use the default settings that are in effect from the initial power-on screen.

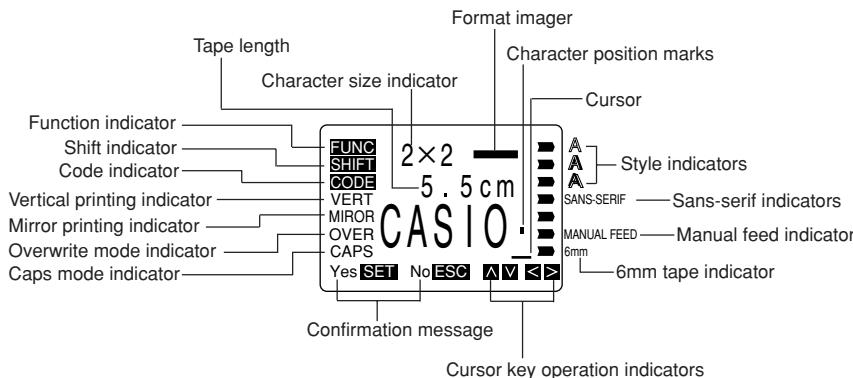
For information on using other fonts, styles, effects and characters sizes, see page 27.

Important!

- You can input up to 127 characters. Further input becomes impossible after you input the 127th character.

Display Symbols and Indicators

Before getting into actual input, you should first become acquainted with the symbols and indicators used on the Label Printer display.



• Function indicator

This indicator appears when you press **FUNC**. Pressing a key while this indicator is on the display causes the function marked above that key to be executed.

• Shift indicator

This indicator appears when you press **SHIFT**. While this indicator is on the display, the keyboard is shifted, so the letter keys input upper-case alpha characters. The number keys input the punctuation symbols marked in the upper right corners of the keys.

If both the caps mode indicator and the shift indicator are shown on the display, the keyboard is shifted to lower-case input.

The keyboard is unshifted (and the shift indicator disappears) as soon as you input a character.

- **Code indicator**

This indicator appears when you press **CODE**. While this indicator is on the display, the number keys input the accents marked above the keys.

The keyboard returns to normal (and the code indicator disappears) as soon as you input an accent.

- **Vertical printing indicator**

This indicator appears when the Label Printer is set up for vertical printing. Horizontal printing is performed when this indicator is not shown.

- **Mirror image printing indicator**

This indicator appears when the Label Printer is set up for mirror image printing. Normal (non mirror image) printing is performed when this indicator is not shown.

- **Overwrite mode indicator**

This indicator appears when the Label Printer is in the overwrite mode. In the overwrite mode, inputting a character at a location where there is already a character, replaces the original character with a new one. When this indicator is not shown, the input character is inserted in front of the existing character.

- **Caps mode indicator**

This indicator appears when the Label Printer is in the caps (upper-case) mode. All letters you input in the caps mode are upper-case. When the caps mode indicator is not shown on the display, all letters are input as lower-case.

Note that the Label Printer stays in the caps mode until you press **CAPS** again.

If both the caps mode indicator and the shift indicator are shown on the display, the keyboard is shifted to lower-case input.

- **Confirmation message**

The confirmation message appears when you must make a yes-or-no choice for the message shown on the display. When this message appears, press **SET** for "yes" or **ESC** for "no."

- **Cursor key operation indicators**

These indicators show you what cursor key operations are available in the screen shown on the display. If the **▲** and **▼** indicators are shown, it means you can use the **▲** and **▼** cursor keys. If the **<** and **>** indicators are shown, it means you can use the **<** and **>** cursor keys.

- **Style indicators**

These indicators point to the character style that is currently in use. You can select between outline, shadow, and raised.

- **Sans-serif indicator**

This indicator appears when you are using the sans-serif font. The serif font is in effect when this indicator is not on the display.

- **Manual feed indicator**

This indicator appears when you are using manual feed instead of auto feed. Auto feed is in effect when this indicator is not on the display.

Important!

- After you finish printing when using manual feed, be sure to always press **FUNC** and then **FEED** to feed the tape before cutting it. If you don't, you will cut off part of the printed text.

- **6mm tape indicator**

This indicator appears when you use the procedure described under "To specify the tape width" to specify 6 millimeter wide tape. Another tape size is specified when this indicator is not on the display.

- **Format imager**

This graphic shows how many lines of text are in the format. The thickness of each line also gives you some idea of the relative size of the characters in each line.

If the format you are using has more than one line, the line in the format imager that corresponds to the current cursor location flashes on the display.

- **Cursor**

The cursor shows the next input position. Any character you input appears at the point where the cursor is located.

- **Character size indicator**

These values shows the height and width measurements of the characters.

- **Tape length**

The value shows how long the tape will be when you print it. You can select inches or centimeters for this value.

- **Character position marks**

These marks show where characters will appear as you input them. This part of the display is always blank when you switch power on.

Basic Alpha-Numeric Input

The following operation shows you the basic procedures for inputting letters and numbers. We will explain the procedure by inputting the following characters onto the default initial power-on screen.

ABXYZ Computer Company
1234567890

Note

- If you hold down any key, it will repeat its operation or input at high speed until you release it.

To input alpha-numeric characters

1. Switch power on.
2. Input the first line of characters.

**CAPS A B X Y Z SPACE C CAPS O M P U T E R SPACE
SHIFT C O M P A N Y**

- To input the upper-case letters, you use either **SHIFT** or **CAPS**. Remember that with **SHIFT** you must shift the keyboard for each character. With **CAPS**, on the other hand, the keyboard stays shifted until you press **CAPS** again.
- Press **SPACE** to input spaces.
- If you input a wrong character, press **BS** to delete it and input again. See page 23 for other details on editing text.
- Note how the second line of the display changes as you input characters. These numbers indicate the length of tape required to print the character.

- When you reach the end of a line of text, press ↲ to input a newline mark.
 - A newline operation is indicated on the display by the ↵ symbol. This shows where you changed lines.
 - When you insert ↵, the Label Printer automatically makes adjustments in the size of the characters if the size you are currently using cannot fit. With a 9mm tape for example, you start out with 2x2 size characters, but this automatically changes to 1x1 as soon as you input a ↵ symbol.
- Input the characters in the second line.
1 2 3 4 5 6 7 8 9 0
- To print the text that you input, press **PRINT**. For details on printing, see page 58.

About the **CODE** key...

The **CODE** key makes it possible to input punctuation needed for a number of different languages. The following shows the key operations you should use for each of the characters formed using the **CODE** key.

Key Operation	Input	Key Operation	Input
CODE A	Æ	CODE 4	~
CODE S*	ß	CODE 5	^
CODE O	Œ	CODE 6	ˇ
CODE Z	Ž	CODE 7	º
CODE C	Ҫ	CODE 8	/
CODE 1	,	CODE 9	„
CODE 2	,	CODE 0	,
CODE 3	..		

* Lower case only.

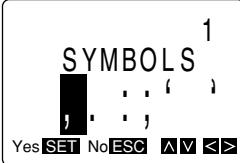
Example: To input á.
CODE 1 A

To input special symbols

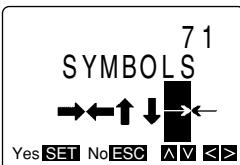
Example: To input the special symbol →.

- With the cursor at the location where you want to input a special symbol, press **SYMBOL**.
- Use the ▲ and ▼ cursor keys to move the highlighting to the symbol list that contains the symbol you want to use.
 - In this example, highlight SYMBOLS.

- After you highlight the symbol list you want, press **SET**.



- Use the **▲** and **▼** cursor keys to scroll the list line-by-line, or the **◀** and **▶** cursor keys to move the highlighting left and right.
- In this example, highlight **→**.



- After you highlight the symbol you want, press **SET**.

- This returns to the input screen, with the symbol you selected input at the location where the cursor was located when you displayed the symbol list.

To input illustrations

Example: To input .

- With the cursor at the location where you want to input an illustration, press **ILLUST**.
- The highlighted list name is the one that is currently selected.



- Use the **▲** and **▼** cursor keys to scroll the list line-by-line, or the **◀** and **▶** cursor keys to move the highlighting left and right.
- In this example, highlight .



- After you highlight the illustration you want, press **SET**.

- This returns to the input screen, with the illustration you selected input at the location where the cursor was located when you displayed the illustration list.

Part 4

Deleting and Inserting Characters

This section describes everything you need to know about deleting and editing characters you have already input.

Moving the Cursor

The following points describe how to move the cursor around the display to position it for deleting and editing characters.

To move the cursor

- Press **◀** to move the cursor to the left, and **▶** to move the cursor to the right.
- Press **FUNC** and then **◀** to make the cursor jump to the beginning (far left) of the characters on the display.
- Press **FUNC** and then **▶** to make the cursor jump to the end (far right) of the characters on the display.
- Press **SHIFT** and then **◀** to make the cursor jump to the next newline mark (see “To input alpha-numeric characters”) or block mark (page 37) to the left.
- Press **SHIFT** and then **▶** to make the cursor jump to the next newline mark or block mark to the right.
- Holding down the cursor keys moves the cursor left or right at high speed.

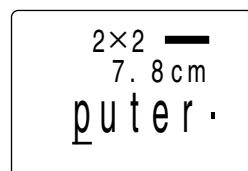
Deleting Individual Characters

You can delete individual characters with either the **BS** key or the **DEL** key. The only difference between the operation of these two keys is the location of the cursor.

To delete characters using the BS key

Example: To change the word “commputer” to “computer”.

1. Use **◀** and **▶** to move the cursor under “p”.



2. Press **BS** twice to delete the two m's to the left of the cursor, shifting “puter” to the left as you do.
- Press **FUNC** and then **▶** to jump back to the end of the characters for more input.

To delete characters using the DEL key

Example: To change the word “commmputer” to “computer”.

1. Use **◀** and **▶** to move the cursor under the first (far left) “m”.
2. Press **DEL** twice to delete the two m’s at the cursor’s position, shifting “mputer” to the left as you do.
- Press **FUNC** and then **▶** to jump back to the end of the characters for more input.

Deleting a Series of Characters

The Label Prter’s Word Out function lets you delete a series of characters with a single operation. This operation deletes all characters to the left of the current cursor location, up to the previous space.

To delete a series of characters

Example: To change “ABC XYZDEF GHI” to “ABC DEF GHI”.

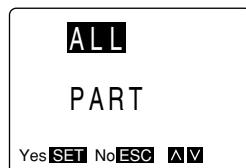
1. Use **◀** and **▶** to move the cursor under the letter “Z”.
2. Press **FUNC** (the **FUNC** indicator appears on the display), and then **BS**.
- This deletes everything from “Z” up to the next space to the left of the cursor, leaving “ABC DEF GHI”.

Using the CLS Function

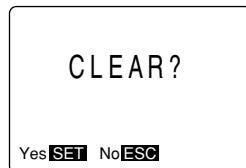
The CLS function gives you two options for clearing the display. You can either clear all text from the display, or you can specify a series of text for clearing.

To clear all text from the display

1. Press **FUNC** and then **CLS** to display the clear screen menu.



2. The ALL (all text) option is highlighted, so press **SET**.

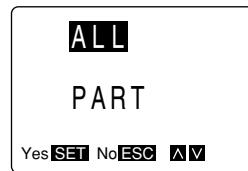


3. Press **SET** to clear all of the text or **ESC** to abort the clear procedure without deleting anything.

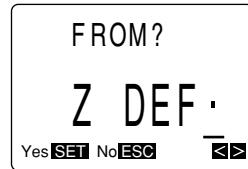
To clear specific text

Example: To change “ABC UVW XYZ DEF” to “ABC DEF”.

1. Press **FUNC** and then **CLS** to display the clear screen menu.



2. Use ▼ to highlight PART, and then press **SET**.



3. Use ◀ and ▶ to move the cursor to one end of the text you want to clear.
 - In our example, move the cursor so it is under “Z” or “U”.

4. Press **SET**.



5. Use ◀ and ▶ to move the cursor to the other end of the text you want to clear.
 - If you selected “Z” in step 3, move the cursor to the space to the left of “U”. If you selected “U” in step 3, move the cursor to the space to the right of “Z”.
 - Note that the text that will be deleted is highlighted as you move the cursor.

Important!

The next step will delete the selected text without a warning message. Make sure that you really want to clear the selected text before proceeding.

- If you change your mind about deleting text, you can use **ESC** to backstep to the input screen without deleting anything.

6. Press **SET** to clear the text you selected.

Overwrite and Insert

You can set up the Label Printer for either overwrite or insert of characters at the cursor position. The following describes the difference between these two options.

Overwrite

With overwrite, characters you input replace the characters at the cursor location. The Label Printer is in the overwrite mode when the overwrite mode indicator (see “Display Symbols and Indicators”) is on the display.

Insert

With insert, characters you input are inserted between the characters at the cursor location. The Label Printer is in the insert mode when the overwrite mode indicator is not on the display.

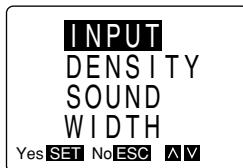
Note that insert is the default whenever you switch Label Printer power on.

The following table illustrates the difference between the overwrite and insert modes.

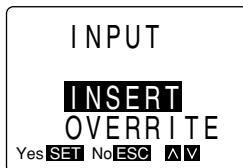
Display Characters	Input	Overwrite Mode	Insert Mode
ABC <u>DEF</u> G	XYZ	ABXYZ <u>E</u> FG	ABXYZ <u>C</u> DEFG

To switch between overwrite and insert

1. Switch power on.
2. Press **SET UP** to display the setup menu.



3. The INPUT option is highlighted, so press **SET**.



4. Use ▲ and ▼ to highlight OVERRITE (overwrite) or INSERT, and then press **SET** to apply the setting and return to the text input screen.

Part 5

Character Attributes and Text Effects

The operations in this part of the manual explain how to change the fonts, style, and size of characters. These characteristics are called character attributes. It also tells you how to assign such text effects as underlining, shading, and box printing to text after you finish inputting it.

Specifying Character Attributes

You can specify character attributes at any of the following three points.

- **Before you input any characters**

In this case, the attributes are applied to the characters you input later. You cannot use this method to assign text effects.

- **After inputting some characters**

This method lets you change the attributes being applied to the text you are inputting. You cannot use this method to assign text effects.

- **After you finish inputting text**

Use this method to change the attributes of the text you have finished inputting. Text effects can be assigned only for text that is already input.

The techniques to use for each of the above cases are described below.

Important!

- Character attributes you specify affect printed text only. The characters on the display do not change.
- Remember that character attributes are assigned to specific characters, not to positions on the display.
- Text effects are applied to both displayed text and printed text.

To specify attributes before inputting characters

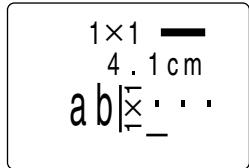
When there are no characters on the display, simply specify the character attributes you want. The characters that you input are then automatically assigned the attributes as you input them.

- See the following pages of this manual for details on specifying attributes.
Font – page 29
Style – page 30
Size – page 32
- If you change the character size, a symbol appears to show where the size change takes place.

1 x 1 —
0 . 0 cm
|X

To change attributes in the middle of text

1. Input text using the initial attributes.
2. Perform one of the character attribute change operations.
 - See the following pages of this manual for details on specifying attributes.
Font – page 29
Style – page 30
Size – page 32
 - Whenever you perform an attribute change operation after inputting some text, a message appears asking from where you want to begin the change.
3. Press **SET**.
 - This causes a message to appear asking up to which point you want the change to take effect.
4. Press **SET**.
 - Note that you should specify the points for FROM? and TO? in this operation.
 - Any characters you now input will use the attributes you specified in step 2, above.
 - If you change the character size, a symbol appears to show where the size change takes place.



1 x 1 —
4 . 1 cm
a b|~~x~~ ...

To change attributes or effects of existing text

1. After inputting text, perform one of the character attribute or text effect change operations.
 - See the following pages of this manual for details on actually specifying attributes.
Font – page 29
Style – page 30
Size – page 32
Text effects – page 34
 - Whenever you perform an attribute or effect change operation after inputting text, a message appears asking from where you want to begin the change.
2. Use **◀** and **▶** to move the cursor to the point where you want the change to start.
3. Press **SET**.
 - This causes a message to appear asking up to which point you want the change to take effect.
4. Use **◀** and **▶** to move the cursor to the point up to which you want the change to take effect.
 - Note that the text that will be affected by the change is highlighted as you move the cursor.
 - Note that the TO? point can be either to the left or to the right of the FROM? point.

5. Press **SET** to make the change
 - If you change the character size, a symbol appears to show where the size change takes place.

1×1 —
4 . 5 cm
a b c d F

Important!

- All of the following examples show how to make changes in existing text.

Changing Fonts

There are two fonts that you can select: serif and sans-serif. The following shows examples of each type of font:

Serif:

A B C . X Y Z

Sans-serif:

A B C . X Y Z

The following section describes how to change the font setting and how you can find out what the current setting is.

Important!

- Note that you cannot make font changes for illustrations.
- Some symbols do not change even when you select a different font.

How to tell the current font settings

Use the **◀** and **▶** cursor keys to move the cursor around the display. The sans-serif indicator will appear on the display when the cursor is located under a sans-serif character, and it will disappear from the display when the cursor is located under a serif character.

2×2
5 . 9 cm
ABXYZ -
CAPS

To change the font setting

Example: To change “ABXYZ” in the following text to sans-serif.

ABXYZ Computer Company

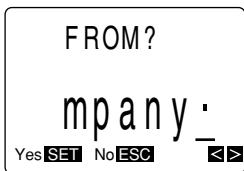
- Input the text.
- Press **FONT** to display a menu of fonts.

SERIF

SANS

Yes SET No ESC ▲▼

3. Use ▼ to highlight SANS, and then press **SET**.



4. Use ◀ and ▶ to move the cursor to the point where you want the font change to start.

- In our example, you would move to either "A" or "Z".
- Since "A" is the first character, you can make the cursor jump directly there by pressing **FUNC** and then ◀.

5. Press **SET** and the letter at the cursor location becomes highlighted.



6. Use ◀ and ▶ to move the cursor to the other end of the range you want to change.

- The text that will be affected by the change is highlighted as you move the cursor.

7. When all the characters you want to change to the new font are highlighted, press **SET** to apply the change and return to the text input screen.

Changing Character Styles

There are four character styles that you can select: normal, outline, shadow, and raised. The following shows examples of each type of style:

Normal:

A B C . X Y Z

Shadow:

A B C . X Y Z

Outline:

A B C . X Y Z

Raised:

A B C . X Y Z

The following section describes how to change the style setting and how you can find out what the current setting is.

How to tell the current style settings

Use the ◀ and ▶ cursor keys to move the cursor around the display. The style indicators appear on the display to indicate the style of the letter at the current cursor location.

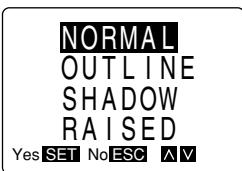
Indicator	Meaning
None	Normal
► A	Outline
► A	Shadow
► A	Raised

To change the style setting

Example: To change "ABXYZ" in the following text to shadow.

ABXYZ Computer Company

1. Input the text.
2. Press **STYLE** to display a menu of styles.



3. Use ▼ to highlight SHADOW, and then press **SET**.



4. Use ◀ and ▶ to move the cursor to the point where you want the style change to start.
 - In our example, you would move to either "A" or "Z".
 - Since "A" is the first character, you can make the cursor jump directly there by pressing **FUNC** and then ◀.
5. Press **SET** and the letter at the cursor location becomes highlighted.



6. Use ◀ and ▶ to move the cursor to the other end of the range you want to change.
 - The text that will be affected by the change is highlighted as you move the cursor.
7. When all the characters you want to change to the new style are highlighted, press **SET** to apply the change and return to the text input screen.

Important!

If you change the character style for character sizes L2x3 or any "S" character sizes, the edges of the printed characters may be broken.

Changing Character Size

There are seven character sizes that you can specify manually, plus six more that the Label Printer automatically applies. The following table shows all of the character sizes available. The unshaded sizes are those you can specify manually, while the shaded sizes are those that are applied automatically (and cannot be specified manually).

Indicator	Size of each printed character (mm)	Indicator	Size of each printed character (mm)
1 × 1	3 × 3	S1 × 1	2 × 2
1 × 2	3 × 6	S1 × 2	2 × 4
1 × 3	3 × 9	S1 × 3	2 × 6
2 × 1	6 × 3	S2 × 1	4 × 2
2 × 2	6 × 6	S2 × 2	4 × 4
2 × 3	6 × 9	S2 × 3	4 × 6
L2 × 3	8 × 9		

Important!

- Note that certain character style and effects may result in poor print quality. This does not indicate malfunction of the Label Printer.
- When the character size you select causes the text to become too large to fit on the tape you are using, the Label Printer automatically reduces the character size to fit. When this happens, the character size indicator shows the character size selected by the Label Printer. The character size indicator is highlighted to show that your selected size was adjusted to fit the tape.

About Auto Fit

If you do not specify a character size, the Label Printer automatically selects the optimum size that can be used to fit all of the characters on the tape. When using 9 to 18mm wide tape, for example, the Label Printer automatically uses 2×2 characters as the initial default. If you insert a newline mark inside the text (see “To input alpha-numeric characters”), the default character size automatically changes to 1×1 so both lines of text can fit on the tape.

About the FIT mark

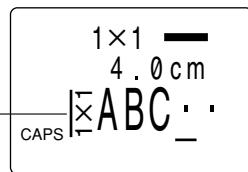
Whenever you change the size of some of the characters on the display, the Label Printer recalculates the optimum size of all the remaining characters. It also recalculates when you input a newline mark (¶). When this happens, the Label Printer automatically inserts a fit mark (¶) inside the text, which indicates that all text to the right of it is automatically adjusted to make it fit on the tape.

You can delete a fit mark, but if you do, the character size indicator will become highlighted to indicate that characters will be automatically adjusted to a size that can be printed.

How to tell the current size settings

Size marks on the display show where characters sizes change.

Size mark

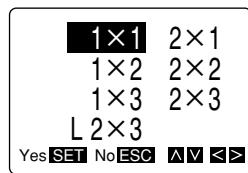


To change the characters size

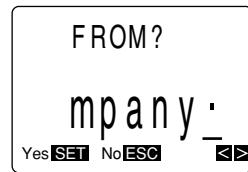
Example: To change "ABXYZ" in the following text to 1×1 , leaving the remaining characters at 2×2 .

ABXYZ Computer Company

1. Input the text.
2. Press **SIZE** to display a menu of sizes.



3. Use **▼** and **►** to highlight to 1×1 , and then press **SET**.



4. Use **◀** and **►** to move the cursor to the point where you want the size change to start.
 - In our example, you would move to either "A" or "Z".
 - Since "A" is the first character, you can make the cursor jump directly there by pressing **FUNC** and then **◀**.
5. Press **SET** and the letter at the cursor location becomes highlighted.



6. Use **◀** and **►** to move the cursor to the other end of the range you want to change.
 - The text that will be affected by the change is highlighted as you move the cursor.
7. When all the characters you want to change to the new size are highlighted, press **SET** to apply the change and return to the text input screen.

Notes

- You can delete a character size change by moving the cursor to the character size indicator on the display and deleting the indicator using **BS** or **DEL**.
- Standard size characters (sizes without "S" in front of them) are proportionally spaced.

Assigning Text Effects

You can assign text effects only to text that has already been input. If you later input text in between existing text that is already assigned a text effect, the inserted text is also assigned the effect assigned to the text on the left and right.

Important!

- The text effects are applied to text on the display, in addition to the printed text.

Changing Text Effects

There are three text effects that you can assign: shading, underlining, and boxed text. The following shows examples of each effect:

Shading:

A B C . X Y Z

Boxed Text:

A B C . X Y Z

Underlining:

A B C . X Y Z

The following section describes how to assign and remove text effects.

Note

- Note that you can assign multiple effects to the same text.

To assign text effects

Example: To shade “ABXYZ” in the following text.

ABXYZ Computer Company

1. Input the text.
2. Press **EFFECT** to display a menu of effects.



3. Use ▲ and ▼ to highlight SHADING, and then press **SET**.



4. Use ◀ and ▶ to move the cursor to the point from which you want the effect to start.
 - In our example, you would move to either “A” or “Z”.
 - Since “A” is the first character, you can make the cursor jump directly there by pressing **FUNC** and then ◀.

5. Press **SET** and the letter at the cursor location becomes highlighted.

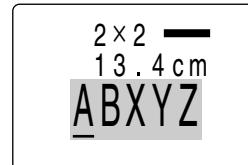


6. Use **◀** and **▶** to move the cursor to the other end of the range to which you want to assign the effect.

- The text that will be assigned the effect is highlighted as you move the cursor.
- Note that you can assign effects to one block at a time. You cannot select text across multiple blocks to assign effects.

7. When all the characters to which you want to assign the effects are highlighted, press **SET** to assign the effects and return to the text input screen.

- Note that the characters on the display are shaded.



Important!

- When using the box effect with two lines of text, the result you get depends on how you select the text. Note the following text.

ABXYZ **↔**
Computer Company

If you assign the box effect to "ABXYZ" and "Computer Company" separately, you get the following result.

ABXYZ
Computer Company

If you assign the box effect to the entire text (From "A" to "y"), you get the following result.

ABXYZ
Computer Company

To remove text effects

Example: To remove the shading from "ABXYZ" in the following text.

ABXYZ Computer Company

Note

- The following operation removes all effects assigned to the text you specify.

- Press **EFFECT** to display a menu of effects.
- Use **▼** to highlight CANCEL, and then press **SET**.



- Use **◀** and **▶** to move the cursor to the point from which you want to remove effects.
- Press **SET** and the letter at the cursor location becomes highlighted.

5. Use **◀** and **▶** to move the cursor to the other end of the range from which you want to remove the effects.
6. When all the characters from which you want to remove effects are highlighted, press **SET** to remove the effects and return to the text input screen.

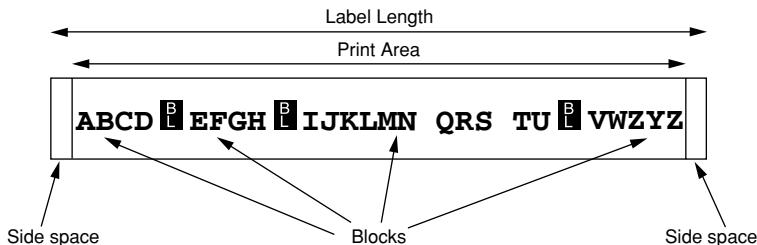
Part 6

FORM Menu Functions

This part of the manual describes how to use the FORM menu to layout your text exactly the way you want it on the label. With the FORM menu, you can control character pitch, text blocks, text alignment, and a wide range of other features.

Fundamentals of Label Layout

Before we actually begin our discussion about how to layout a tape, we should first define a few terms. Note the following illustration.



- **Blocks**

A *block* is text that is enclosed between two *block marks* (█). Note that the first (far left) block does not require a block mark at the beginning, and the last (far right) block does not require a block mark at the end. If there are no block marks, all of the text is treated as a single block. You can individually specify the length of each block, as well as the pitch and the number of lines inside each block.

- **Print Area**

The *print area* is the actual area of a label that contains printed text. It starts with the left side of the first character printed, and ends with the right side of the last character printed.

- **Side Spaces**

The side spaces are blank areas that the Label Printer automatically adds on either end of the print area. Note that side spaces are only added when you are using auto feed, and they are not added when using manual feed (see "Auto Feed").

Auto Feed (with long side spaces)

ABXYZ

Auto Feed (with short side spaces)

ABXYZ

Manual Feed

A B X Y Z

- **Label Length**

The *label length* is the print area, plus the side spaces.

Settings you make for side spaces, block spacing, and mirror printing affect the entire label length.

Creating and Deleting Blocks

The following procedures describe how to create and delete blocks. Later you will learn how you can change certain settings on a block-by-block basis.

To create a block

Example: To input the text “ABXYZ Computer Company” and create two blocks: “ABXYZ” and “Computer Company”.

1. Input the text.
2. Move the cursor to the space between “ABXYZ” and “Computer Company”.
3. Press **BLOCK**.
 - If you wanted to break the text up into three blocks, you would input another block mark.

2 x 2 —
1 3 . 6 cm
B L Comp

To delete a block mark

To delete a block mark, use the procedures for **BS** and **DEL** as described under “Deleting Individual Characters”.

Character Pitch

The term *character pitch* refers to the relative spacing between characters. The Label Printer provides three character pitches from which to choose: NONE (0mm), NARROW (0.5mm), and WIDE (1mm).

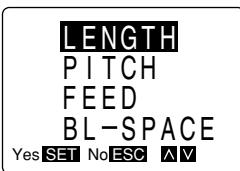
The character pitch setting you make is applied only to the block where the cursor is located when you perform the setting operation.

- The default character pitch setting is NONE.

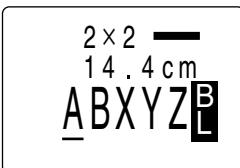
To specify the character pitch

Example: For the two-block text “ABXYZ”, “Computer Company”, to change the spacing of “ABXYZ” to WIDE.

1. Input the text and define the two blocks.
2. Use **◀** and **▶** to move the cursor so it is inside the block whose character pitch you want to change.
3. Press **FORM** to display the FORM menu.



4. Use **▼** to highlight PITCH, and press **SET**.
5. Use **▲** and **▼** to select the character pitch you want.
 - You can select NONE, NARROW, or WIDE.
 - In this example, you should select WIDE.
6. After selecting the character pitch, press **SET** to apply the setting and return to the text input screen.



- It is impossible to change the PITCH setting while the cursor is located at a block mark (B) at the beginning of a block of text.

Block Length

You can individually specify the length of each block that makes up your label. If you are making title labels for the edge of binders, for example, you can specify a uniform length for the title, date, and author. This causes the text on the labels to be uniformly aligned when the binders are placed on a bookshelf.

The block length setting you make is applied only to the block where the cursor is located when you perform the setting operation.

To specify a block length

Example: To specify the following block lengths for the text noted below.

Text	Block Length
Monthly Sales	6.5 cm
Accounting Department	6.5 cm
1st Quarter 1995	6.5 cm

1. Input the text and define the three blocks.
2. Use **◀** and **▶** to move the cursor so it is inside the block whose length you want to change.

3. Press **FORM** to display the FORM menu.

LENGTH
PITCH
FEED
BL-SPACE
Yes SET No ESC ▲▼

4. Use ▲ and ▼ to highlight LENGTH, and press **SET**.

VHS
8mm
CASSETTE
FLOPPY
Yes SET No ESC ▲▼

5. Use ▲ and ▼ to highlight FREE, and press **SET**.

- Since there are six options on this menu, they do not all fit on a single screen. To view the two options at the bottom of the menu (FREE and CANCEL), press ▼ four times.

T-LENGTH
B-LENGTH
Yes SET No ESC ▲▼

6. Use ▲ and ▼ to select B-LENGTH for the block length setting screen, and press **SET**.

T-LENGTH
24.5cm
B-LENGTH
[5.2cm]
Yes SET No ESC <>

7. Use ◀ to decrease the current block length setting value or ▶ to increase it.

- Note that the tape length at the top of the display also changes when you change the block length.
- After setting the block length (and tape length), press **SET** to apply the setting and return to the text input screen.

8. After making the setting, press **SET** to apply it.

The imager appears as illustrated below when you are using fixed block lengths.

- [=====] Printing can be performed as specified.
- (=====) Printing can be performed using the length specified, but characters are condensed horizontally.
- =====] Printing cannot be performed as specified.
The error message "TEXT DOES NOT FIT!" appears on the display.

To cancel block length settings

1. Press **FORM** to display the FORM menu.
2. Use ▲ and ▼ to highlight LENGTH, and press **SET**.

3. Use ▲ and ▼ to highlight CANCEL.



4. Press **SET** to cancel the block length setting for all the blocks and return to the text input screen.

Important!

- If you input a block mark while inputting new text, the text to the right of the block mark inherits its block-specific settings (block length and pitch) from the block to the left of the block mark. If you specify a block length and then input "ABC [] DEF" for example, both "ABC" and "DEF" have the same block length and pitch settings.
- If you change the block-specific settings of a block of text after inputting a block mark, only the selected block is affected. If you change the settings of "ABC" in the above example, the settings of "DEF" remain unchanged.

Tape Length

You can specify the physical length of tape that should be used for printing your text. There are six different settings that you can use to specify the tape length.

• **VHS**

This setting automatically sets the tape length so it is suitable for use as a label for a VHS video tape cassette.

• **8mm**

This setting automatically sets the tape length so it is suitable for use as a label for an 8mm video tape cassette.

• **CASSETTE**

This setting automatically sets the tape length so it is suitable for use as a label for an audio cassette tape case.

• **FLOPPY**

This setting automatically sets the tape length so it is suitable for use as a label for a floppy disk.

• **FREE**

Use this setting to set the tape to any length that you want.

• **CANCEL**

This setting cancels any of the above settings and instructs the Label Printer to automatically set the tape length.

To select a preset tape length

Example: Layout an audio cassette tape case label with the text "MY FAVORITE SONGS".

1. Input the text.
2. Press **FORM** to display the FORM menu.

LENGTH
PITCH
FEED
BL-SPACE
Yes SET No ESC ▲▼

3. Use ▲ and ▼ to highlight LENGTH, and press **SET**.

VHS
8mm
CASSETTE
FLOPPY
Yes SET No ESC ▲▼

4. Use ▲ and ▼ to highlight CASSETTE.
5. Press **SET** to apply the setting and return to the text input screen.

- If the text you input is too long to fit within the tape length you specified, the error message TEXT DOES NOT FIT! appears on the display for about one second. When this happens, try making the characters smaller or inserting newline marks (see "To input alpha-numeric characters") to make the text fit better on the tape.

To specify your own tape length

Example: To specify a tape length of 10cm for the text "ABXYZ Computer Company".

1. Input the text.
2. Press **FORM** to display the FORM menu.

LENGTH
PITCH
FEED
BL-SPACE
Yes SET No ESC ▲▼

3. Use ▲ and ▼ to highlight LENGTH, and press **SET**.

VHS
8mm
CASSETTE
FLOPPY
Yes SET No ESC ▲▼

4. Use ▲ and ▼ to highlight FREE, and press **SET**.
 - Since there are six options on this menu, they do not all fit on a single screen. To view the two options at the bottom of the menu (FREE and CAN-CEL), press ▼ four times.

T-LENGTH
B-LENGTH
Yes SET No ESC ▲▼

5. Use ▲ and ▼ to select T-LENGTH and then press **SET**.

6. Use **◀** to decrease the current tape length setting value or **▶** to increase it.
7. After setting the tape length, press **SET** to apply the setting and return to the text input screen.
 - If the text you input is too long to fit within the tape length you specified, the error message TEXT DOES NOT FIT! appears on the display for about one second. When this happens, try making the characters smaller or inserting newline marks (see “To input alpha-numeric characters”) to make the text fit better on the tape.

To cancel a tape length setting

1. Press **FORM** to display the FORM menu.
2. Use **▲** and **▼** to highlight LENGTH, and press **SET**.
3. Use **▲** and **▼** to highlight CANCEL.
4. Press **SET** to cancel the tape length setting and return to the text input screen.

Auto Feed

You can switch the Label Printer's auto feed feature on and off. You can also specify one of two different feed settings that provides either large or small side spaces (“Fundamentals of Label Layout”). You can choose any one of the three following operations for tape feed.

- **Auto Feed (LONG)**

This setting causes the tape to feed 16mm at the beginning and end of each printing, creating 16mm side spaces.

- **Auto Feed (SHORT)**

This setting causes the tape to feed 5mm at the beginning and end of each printing, creating 5mm side spaces.

When using the SHORT feed option, the message “CUT THEN [SET]!” appears as soon as you press **PRINT**. Operate the cutter to cut off the leading end of the tape and press **SET** to continue the print operation.

- **Manual Feed (M-FEED)**

This setting provides side spaces of only 1mm of the printed text. If you perform two consecutive print operations (without manually feeding between prints), the last character of the first print operation is followed by the first character of the second print operation, with no space provided between them. It is a good way to save tape when you print a series of tapes.

Important!

- After you finish printing when using manual feed, be sure to always press **FUNC** and then **FEED** to feed the tape before cutting it. If you don't, you will cut off part of the printed text.

To select a feed option

1. Press **FORM** to display the FORM menu.
2. Use **▲** and **▼** to highlight FEED, and press **SET**.



3. Use **▲** and **▼** to highlight the option that you want (LONG, SHORT, M-FEED).
4. Press **SET** to set the option and return to the text input screen.

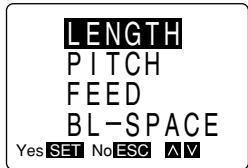
Block Spacing

You can specify the amount of space to be inserted between each block. You can select any one of three different block spacings: NONE (0mm), NARROW (2mm), and WIDE (4mm).

To specify the block spacing

Example: For the two-block text “ABXYZ”, “Computer Company”, change the spacing to WIDE.

1. Input the text and define the two blocks.
2. Press **FORM** to display the FORM menu.



3. Use **▼** to highlight BL-SPACE, and press **SET**.



4. Use **▲** and **▼** to select the block spacing you want.
 - In this example, you should select WIDE.
5. After selecting the block spacing, press **SET** to apply the setting and return to the text input screen.

To specify vertical printing

1. Input the text you want to print.
2. Press **FORM** to display the FORM menu.

3. Use ▼ to highlight DIRECTON, and press **SET**.
 - Since there are eight options on this menu, they do not all fit on a single screen. To view the four options at the bottom of the menu, press ▼ four times.
4. Use ▼ to highlight VERT (vertical).
5. Press **SET** to return to the text input screen.

Mirror Image

When you specify mirror image for text, it is printed in reverse image. Use mirror image when you plan to print on transparent tape, with the printing on the inside. When viewed through the transparent tape, the text will appear normal. You can also use mirror image printing when using iron-on transfer tape to print iron-on transfers.

- Normal

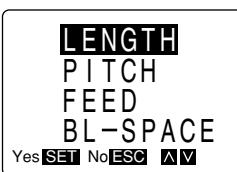
A B C . X Y Z

- Mirror Image

Z Y X . C B A

To specify mirror image

1. Input the text you want to print.
2. Press **FORM** to display the FORM menu.



3. Use ▼ to highlight MIRROR, and press **SET**.
 - Since there are eight options on this menu, they do not all fit on a single screen. To view the four options at the bottom of the menu, press ▼ four times.



4. Use ▲ and ▼ to highlight selection you want.
 - Highlight MIRROR to switch mirror image on, and NORMAL to switch it off.
5. Press **SET** to return to the text input screen.

Text Alignment

After you specify the length of the tape to be printed, you can position the text on a label to be left flush, right flush or centered. You should remember that the results that you get from a text alignment specification will depend on whether your label is made up of one block or multiple blocks. The following shows examples of each option available.

- One Block

Left

ABXYZ Computer	
-------------------	--

Center

	ABXYZ Computer	
--	-------------------	--

Right

		ABXYZ Computer
--	--	-------------------

- Multiple Blocks

Left

LABEL		ABC Company	
-------	--	----------------	--

Center

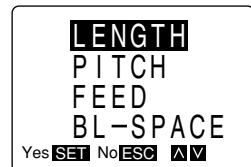
	LABEL		ABC Company	
--	-------	--	----------------	--

Right

		LABEL	ABC Company
--	--	-------	----------------

To specify text alignment

1. Input the text you want to print.
2. Use the procedure under “Tape Length” to specify the length of the tape.
3. Press **FORM** to display the FORM menu.



4. Use **▼** to highlight ALIGN (alignment), and press **SET**.

- Since there are eight options on this menu, they do not all fit on a single screen. To view the four options at the bottom of the menu, press **▼**.



5. Use **▼** to highlight LEFT, CENTER, or RIGHT.
6. Press **SET** to return to the text input screen.

Justification

You can use the justification feature to align the right side of text. When you switch justification on, the text of all blocks that have two or more lines is justified. The following shows some examples of how justification affects text.

- **Ragged**

ABXYZ Computer Company
Label Printer KL-7000

- **Justified**

ABXYZ Computer Company
Label Printer KL-7000

To switch justification on and off

1. Input the text you want to print.
2. Press **FORM** to display the FORM menu.



3. Use **▼** to highlight JUSTIFY (justification), and press **SET**.
 - Since there are eight options on this menu, they do not all fit on a single screen. To view the four options at the bottom of the menu, press **▼** four times.
4. Use **▼** to highlight the selection that you want.
 - Highlight JUSTIFY to switch justification on, and RAGGED to switch it off.
5. Press **SET** to return to the text input screen.



Part 7

Quick Formats

The quick formats in the Label Printer's memory let you make character size settings with the touch of a key. Then you simply input your text, which is automatically assigned the character sizes according to the quick format you selected.

The following shows each of the selections available in the menu of quick formats, and the character sizes for each line.

Text	Block
CANCEL	Cancels a built-in format specification.
---	Line 1: 1×1
----	Line 1: 2×2
---	Line 1: L2×3
----	Line 1: 1×1 Line 2: 1×1
====	Line 1: S1×1 Line 2: S1×1 Line 3: S1×1
=====	Line 1: S1×1 Line 2: S1×1 Line 3: S2×2
=====	Line 1: S1×1 Line 2: S2×2 Line 3: S1×1
=====	Line 1: S2×2 Line 2: S1×1 Line 3: S1×1
=====	Line 1: S1×1 Line 2: S1×1 Line 3: S1×1 Line 4: S1×1

Important!

- Built-in formats affect character sizes only. Preset layouts (page 51) also include specifications for tape length, font attributes, etc.
- You can make attribute, font, and other specifications inside of a quick format, but you cannot specify a character size.
- Selecting a quick format also limits the number of lines you can input. If you select a 2-line format, for example, inputting a second newline mark (¶) causes an error message to appear on the display.
- If the text you input has fewer lines than the selected format, the unused lines are left blank.

- You can assign different quick format settings for each block. This means you can have a 4-line block, followed by a 2-line block, etc.
- If you insert a block mark (█) inside formatted text, the text to the left of the block mark retains the formatting but the text to the right of the block mark is not affected by the formatting.
- Remember that you can use only 2-line formats with 6mm tape. If you specify a format with more than two lines while using 6mm tape, the error message TOO MANY LINES! appears on the display. The error input display shown on the right appears when you try to print.
- When editing text, it is impossible to select a format that has fewer lines than the text you are editing.

TOO MANY
LINES!

No **ESC**

To select a quick format

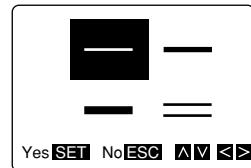
Example: To use a quick format to input the following text.

S2x2: ABXYZ Computer Company

S1x1: 12345

S1x1: 67890

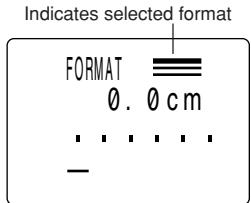
1. Start with a clear input screen or use **◀** and **▶** to move the cursor to the block for which you want to specify a quick format.
2. Press **FORMAT**.



3. Use **▲**, **▼**, **◀**, and **▶** to highlight the quick format you want to use.

- For this example, highlight (≡).

4. Press **SET**.

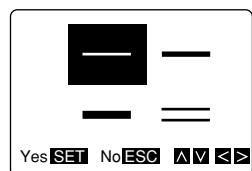


5. Input your text, pressing **↓** at the end of each line.

- For this example, input: ABXYZ Computer Company **↓**12345 **↓**67890. Each line is automatically assigned the character sizes in the format.

To cancel a quick format

1. Use **◀** and **▶** to move the cursor to the block whose quick format you want to cancel.
2. Press **FORMAT**.



3. Highlight **CANCEL**.

4. Press **SET**.

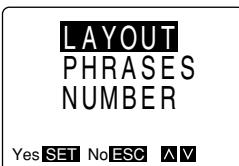
Part 8

Presets

This part of the manual tells you how to use the presets menu to select from among a variety of built-in auto layouts, preset expressions, and numbering styles that help you to create instant labels.

Using the presets menu

1. Press **PRESETS** to display the presets menu.
 - The presets menu includes the items LAYOUT (preset layouts), PHRASES (preset expressions), and NUMBER (preset numbering formats).
2. Use **▲** and **▼** to select the type of preset that you want and press **SET**.
 - Information on how to use each of the types of presets available is described in the following sections.



Preset (Auto) Layouts

Preset (auto) layouts put a wide selection of instant label layouts at your fingertips. Simply select the preset layout you want to use and input your text. Character sizes, attributes, and other settings are automatically applied according to the preset layout you select.

The table on page 74 shows each of the selections available in the menu of preset layouts, and the character sizes for each block.

Important!

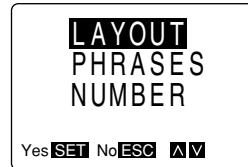
- Preset layouts also include specifications for tape length, font attributes, etc.
- Any text that is on the screen is deleted whenever you select LAYOUT from the presets menu and press **SET**.

To use a preset layout to create a label

Example: To use the 8mm (1) preset layout to create the following label for an 8mm video cassette.

1995 Junior Tennis
Semi-Finals
Finals

1. While the input screen is displayed, press **PRESETS**.



2. Use ▲ and ▼ to highlight LAYOUT, and then press SET.

- If the message “CLEAR INPUT TEXT!” appears on the display, press SET to clear previously input text or ESC to abort the operation without clearing input text.

3. Use ▲ and ▼ to move the highlighting to the type of layout you want, and then press SET.

- In this example, highlight VIDEO.



VIDEO
AUDIO
NAME / FIL
MEM DATA
Yes SET No ESC ▲▼

4. Use ▲ and ▼ to highlight the type of video tape label you want, and then press SET.

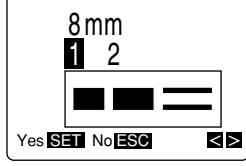
- In this example, highlight 8mm.



VHS
VHS-C
8mm
BETA
Yes SET No ESC ▲▼

5. Use ◀ and ▶ to display the variation you want, and then press SET.

- In this example, display 8mm (1).
- The text section that is flashing on the display is the one that is selected for text input.



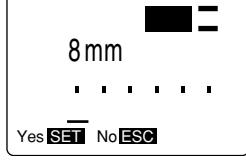
8mm
1 2
Yes SET No ESC <>

6. Input the text for the flashing section.

7. After you input text for a section, press SET to move to the next section.

8. Repeat steps 6 and 7 for each section.

- When the section for the illustration is flashing, you will note that there is already an illustration there. Use BS or DEL to delete the illustration, and then input the new illustration .
- See page 22 for details on inputting illustrations.
- When you press SET after inputting the illustration, the display shows the following menu.



PRINT
STORE
NEW
EXIT
Yes SET No ESC ▲▼

9. Use ▲ and ▼ to highlight the operation you want and then press SET.

- Highlight PRINT to print the label.
- Highlight STORE to store the label in memory (see “To store a preset layout label in memory”).
- Highlight EXIT to exit the label operation without storing the label you created in memory.

To print a label made with a preset layout

1. Create a label or recall the label you want from memory.
2. Use the procedures under “To use a preset layout to create a label” to edit the label.
 - You can start with either a preset layout using the procedure described under “To use a preset layout to create a label”.
3. The menu shown here should be on the display following step 8 under “To use a preset layout to create a label”.



4. Use **▲** and **▼** to highlight PRINT, and then press **SET** to print the label. (See “Printing a Tape”)
5. Operate the cutter to cut the leading end of the tape, and then press **SET** to resume the print operation.



- Instead of printing the new label, you could use the procedures under “To store a preset layout label in memory” to store the new label in memory.

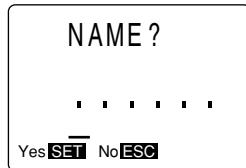
To store a preset layout label in memory

Example: To store a label under the name “TENNIS”.

1. Create the label you want to store.
 - Use the procedures under “To use a preset layout to create a label” to create a label from a preset layout.
 - You can create a label using one you previously stored in memory (see “To recall a preset layout label from memory”).
 - After you finish creating the label, the menu shown here should be on the display (following step 8 under “To use a preset layout to create a label”).



2. Use **▲** and **▼** to highlight STORE, and then press **SET**.



3. Input a name for your layout.
 - A layout name can be up to six characters long.
 - For this example, input the name “TENNIS”.
4. Press **SET** to store the label under the name you specified.
 - Some symbols cannot be used in names.

To recall a preset layout label from memory

Example: To recall the label named “TENNIS”.

1. While the input screen is displayed, press **PRESETS**.

LAYOUT
PHRASES
NUMBER

Yes **SET** No **ESC** ▲ ▼

2. Use ▲ and ▼ to highlight LAYOUT, and then press **SET**.

VIDEO
AUDIO
NAME / FIL
MEM DATA

Yes **SET** No **ESC** ▲ ▼

3. Use ▲ and ▼ to highlight MEM DATA, and then press **SET**.

RECALL

DELETE

Yes **SET** No **ESC** ▲ ▼

4. Use ▲ and ▼ to highlight RECALL, and then press **SET**.

CALL 1
8mm
GOLF

Yes **SET** No **ESC** ▲ ▼

5. Use ▲ and ▼ to display the label you want.
 - In this example, display the label named TENNIS.

CALL 2
8mm
TENNIS

Yes **SET** No **ESC** ▲ ▼

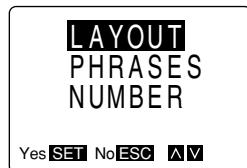
6. Press **SET** to recall the displayed label.

- Now you can print the label using the procedures under “Part 9 Printing”.
- You can edit a label recalled from memory. Use the same procedures as those described under “To use a preset layout to create a label”.

To delete a preset layout label from memory

Example: To delete the label named “TENNIS”.

1. While the input screen is displayed, press **PRESETS**.



2. Use ▲ and ▼ to highlight LAYOUT, and then press **SET**.



3. Use ▲ and ▼ to highlight MEM DATA, and then press **SET**



4. Use ▲ and ▼ to highlight DELETE, and then press **SET**



5. Use ▲ and ▼ to display the label you want to delete.

- In this example, display the label named “TENNIS”.



6. Press **SET**.



7. Press **SET** to delete the label you selected or **ESC** to abort the delete operation without deleting anything.

Preset Phrases

Label Printer memory contains a number of commonly used expressions that are attractively laid out. You simply select the phrases you want to use and print it.

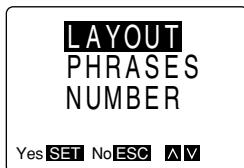
Important!

- Be sure to read “Part 9 Printing” before trying to perform a printing operation.

To print a preset phrases

Example: To print the preset phrases “AIR MAIL”.

1. Press **PRESETS**.



2. Use **▲** and **▼** to highlight **PHRASES**, and then press **SET**.



3. Use **▲** and **▼** until the phrases you want appears on the display.
4. While the text you want is displayed, press **PRINT** to start the print operation.

- Before printing a preset phrases, you can use **IMAGE** to view what the phrases will look like when it is printed. See “To show the image display” for details.

Numbering

The numbering item in the presets memory prints a series of labels that are sequentially numbered. Each time you perform a printing operation, the number increases by 1 automatically.

- Numbers can be up to four digits long (from -999 to 9999).
- You can print up to 50 labels per operation. If you want to produce more than 50 numbered labels, you should repeat the following procedure as many times as necessary.

Important!

- Be sure to read “Part 9 Printing” before trying to perform a printing operation.

To print a numbered series

Example: To print a numbered series in the format “NUMBER 111” to “NUMBER 123”.

1. In the text input screen, input the text “NUMBER 111”.
 - You can make font, attribute, and other specifications when inputting your text. The specifications you make here will also be applied to the numbers that are printed along with the text.

2. Press **PRESETS**.

LAYOUT
PHRASES
NUMBER

Yes **SET** No **ESC** **▲▼**

3. Use **▲** and **▼** to move the highlighting to NUMBER, and then press **SET**.

FROM?

R 111 ·

Yes **SET** No **ESC** **◀▶**

4. Use **◀** and **▶** to move the cursor to the start point, and then press **SET**.

- After you highlight the number, you can increase it by pressing **▲** or decrease it by pressing **▼**.
- You can only highlight numbers. You cannot highlight alpha characters.

NUMBER
PRINT?

ER 111
CAPS

Yes **SET** No **ESC** **▲▼** **◀▶**

5. Use **◀** and **▶** to move the cursor to the end point, and then press **SET**.

6. Press **PRINT** to start the print operation.

7. Cut the tape and then press **PRINT** to print the next label.

- The number is automatically increased with each printing operation you perform.

8. Repeat step 6 as many times as necessary.

- You can abort the number printing operation at any time by pressing **ESC**.

Part 9

Printing

In addition to the procedure you should follow in order to actually print, this part of the manual also includes information on a number of other useful printing features and functions.

Printing Precautions

- Never switch power off while printing is being performed.
- Make sure that the tape outlet is not blocked before you start printing.
- Make sure the tape cartridge compartment cover is closed when cutting the tape.
- Never operate the tape cutter while printing is being performed (indicated by the message NOW PRINTING on the display).
- During printing at very high density, printing of very long text, or repeat printing of the same text a number of times, the Label Printer may stop printing for about five seconds. This is not a malfunction, and normal printing should resume shortly.

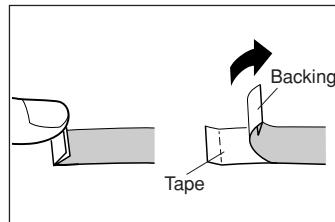
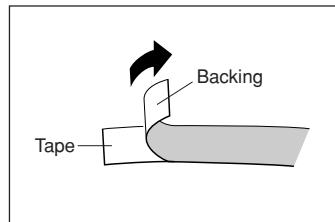
Printing a Tape

Printing a tape is as easy as pressing **PRINT**. Before printing, you can also use **IMAGE** to display what your output will look like.

To print a tape

1. Press **PRINT** to print a tape of the text you have input and laid out.
 - To stop a print operation that is in progress, press **ESC**.
2. After the print operation is complete, press down on the tape cutter button to cut the tape.
3. Use scissors to trim the tape to the size you want, if necessary.

- After you print a tape, you can peel off its paper backing and stick the tape onto the object you want. Note that the tape will not stick on coarse, wet, oily, or soiled surfaces. Also, you should not try to use the tape where it is exposed to direct sunlight or rain. Do not stick the tape onto human skin.
- An easy way to remove the backing from a tape and expose the adhesive surface is to bend the tape near one of its ends. This should cause the tape and its backing to separate, allowing you to pull them apart.

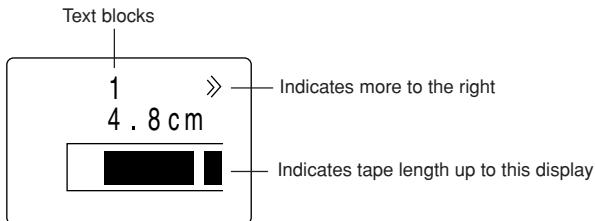


To show the image display

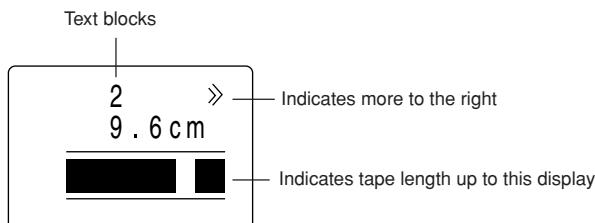
Press **IMAGE**, and the display shows what your text will look like when it is printed. The text automatically scrolls from right to left while you have this key pressed.

To show the layout display

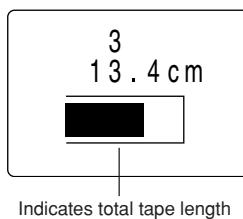
1. Press **LAYOUT** to show the layout display.
 - This display shows you a rough outline of how the various elements will be laid out on the tape.



2. To view the part of the display that runs off the right, press ►.
 - Note that you can scroll the display to the right only. You cannot scroll to the left.



3. Keep pressing ► until you reach the final display.



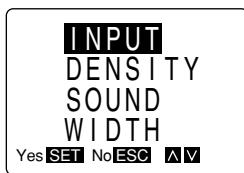
4. Press **ESC** to return to the normal input screen.

To feed tape

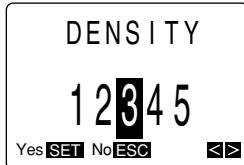
Each time you press **FUNC** and then **FEED**, the tape is fed about 16 mm.

To adjust the print density

1. Switch power on.
2. Press **SET UP** to display the set up menu.



3. Use ▲ and ▼ to highlight DENSITY, and then press **SET**.



4. Use ◀ and ▶ to highlight the density you want to use and then press **SET** to apply the setting and return to the text input screen.
 - The higher the number you select, the darker the characters that are printed.

Frame Printing

The frame printing feature of the Label Printer makes it easy to add attractive ornamental frames around your text. You can specify frames around the outside of the printing area.

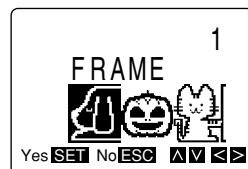
Important! You cannot use frame printing with 6mm tape.

To add a frame around the outside of the printing area

Example: To frame the text "HAPPY BIRTHDAY" with the following frame.



1. Input the text that you want to print.
2. Press **FRAME**.



3. Use ◀, ▶, ▲, and ▼ to move the highlighting to the frame you want, and then press **SET**.
 - See page 73 for a complete list of the frames that are available.



4. Press **SET** to start printing, or **ESC** to abort the printing operation.

- You could press **PRINT** instead of **SET** in step 4 above. In either case, printing starts immediately without a confirmation message.
- Use layout display to check framed text before printing.

Part 10

Memory

This part of the manual tells you how to store text and layout data in memory for instant recall when you want it. You can store approximately 326 characters of text in memory.

Storing Data

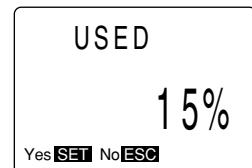
You cannot store two copies of identical data in memory at the same time. If you try to, one of the copies will be discarded automatically.

To store data into memory

1. Input the data you want to store.
2. Press **MEMORY**.



3. Use **▲** and **▼** to highlight STORE, and press **SET**.
 - This message tells you how much memory is used for data storage.



4. Press **SET** to store the data.
 - If there is not enough room in memory to store the data, the message **MEMORY FULL!** appears on the display. In this case, make your new data item smaller (by deleting some of its text), or make room for the new data by deleting items already stored in memory that you no longer need.

Recalling Data

When you recall data, you can specify whether it is to be used as a new data item or in combination with text you have input.

To recall data from memory

1. Press **MEMORY**.

STORE
RECALL
DELETE

Yes **SET** No **ESC** **▲▼**

2. Use **▲** and **▼** to highlight RECALL, and press **SET**.

CALL 1
13.4 cm
ABXYZ

Yes **SET** No **ESC** **▲▼◀▶**

3. Use **▲** and **▼** to scroll through the text stored in memory. Use **◀** and **▶** to scroll the text left and right.

4. After you find the text that you want to recall, press **SET**.

- The NEW/COMBINE display appears only if you already have input text before starting the recall operation. If you did not input any data before starting the recall operation, this display does not appear, and steps 5 and 6 of this procedure are not necessary (so you should skip directly to step 7).

5. Move the highlighting to specify whether you want to use the recalled text as new data (NEW) or in combination with existing data (COMBINE).

- If you select NEW, the recalled data replaces any text that was on the data input screen when you pressed **SET**.
- If you select COMBINE, the recalled data is inserted into the text on the input display.

6. Press **SET** to recall the text from memory.

- If you selected NEW in step 5, the procedure ends here. If you selected COMBINE, continue with the following.

WHERE ?

Eric.

Yes **SET** No **ESC** **◀▶**

7. Use **◀** and **▶** to move the cursor to the location where you want the recalled text to be inserted.

8. Press **SET** to recall the text and insert it at the cursor position.

Deleting Text

Use the following procedure to delete text from memory.

To delete text from memory

1. Press **MEMORY**.
2. Use **▲** and **▼** to move the highlighting to **DELETE**, and press **SET**.
3. Use **▲** and **▼** to scroll through the text stored in memory. Use **◀** and **▶** to scroll the text left and right.
4. After you find the text that you want to delete, press **SET**.

DELETE?

ABXYZ

Yes **SET** No **ESC**

5. Press **SET**.
 - To abort the operation without deleting anything, press **ESC**.

Part 11

Reference

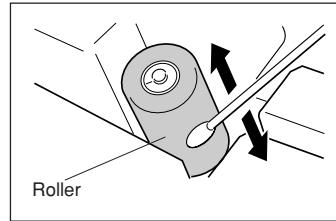
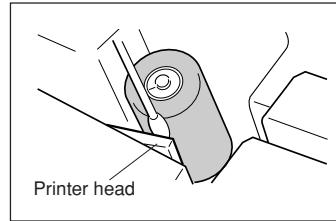
This section contains information about the Label Printer that you can use as a reference when you need it.

Cleaning the Printer Head and Roller

A dirty printer head and roller can result in poor printing quality. If you have problems with print quality, use the following procedure to clean the printer head and roller.

To clean the printer head and roller

1. Make sure the Label Printer is switched off.
2. Press the tape cartridge compartment cover release and open the compartment cover.
3. Remove the tape cartridge.
4. Use a cotton swab dipped in alcohol to clean the printer head and roller as shown in the illustration.

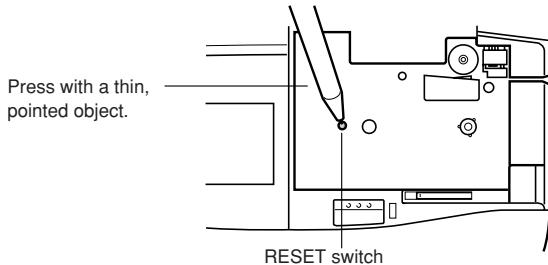


5. Replace the tape cartridge and close the compartment cover.

Resetting

If you experience serious malfunction of the Label Printer or if operation fails completely, try performing the following operation to reset the unit.

1. Switch power off.
2. Open the tape cartridge compartment cover and remove the tape cartridge.
3. Press the RESET switch inside the tape cartridge compartment to reset the Label Printer.



- Take care not to press the RESET switch too hard with a pointed object. Doing so can cause malfunction.
- Never press the RESET switch except when the Label Printer fails to operate correctly.
- Data stored in memory is not cleared when you press the RESET switch.

About the Label Printer's Keys

Key	Name	Description
BLOCK	Block	<ul style="list-style-type: none"> Inputs a block mark.
BS	Backspace	<ul style="list-style-type: none"> Deletes the character to the left of the cursor and shifts characters to the left.
CAPS	Caps	<ul style="list-style-type: none"> Shift locks the keyboard for input of upper-case characters. Unshifts the keyboard for input of lower-case characters.
CODE	Code	<ul style="list-style-type: none"> Causes the code indicator CODE to appear on the display. The next key operation inputs special punctuation or character (if available).
DEL	Delete	<ul style="list-style-type: none"> Deletes the character at the cursor location and shifts characters to the left.
▼	Down	<ul style="list-style-type: none"> Moves highlighting in a menu down.
EFFECT	Effect	<ul style="list-style-type: none"> Displays a menu of effects.
ESC	Escape	<ul style="list-style-type: none"> Cancels the current operation. If the current display was produced from a previous menu, pressing this key backsteps to the previous display. Specifies "No" for a Yes/No dialog.
FONT	Font	<ul style="list-style-type: none"> Displays a menu of fonts.
FORM	Form	<ul style="list-style-type: none"> Displays the FORM menu for pitch, text blocks, text alignment, and other features.
FORMAT	Format	<ul style="list-style-type: none"> Displays a menu of layout formats.
FRAME	Frame	<ul style="list-style-type: none"> Displays a menu of text frames.
FUNC	Function	<ul style="list-style-type: none"> Accesses the functions marked above some of the keys on the keyboard. <p>FUNC FEED</p> <ul style="list-style-type: none"> Manually feeds the tape. <p>FUNC CLS</p> <ul style="list-style-type: none"> Displays the display clear menu. <p>FUNC ▲</p> <ul style="list-style-type: none"> Makes the cursor jump to the first character of text on the display. <p>FUNC ▶</p> <ul style="list-style-type: none"> Makes the cursor jump to the last character of text on the display. <p>FUNC BS</p> <ul style="list-style-type: none"> Deletes all characters to the left of the current cursor location, up to the next space to the left of the cursor.
ILLUST	Illustration	<ul style="list-style-type: none"> Displays a menu of illustrations.

Key	Name	Description
IMAGE	IMAGE	<ul style="list-style-type: none"> • Displays text as it will appear on the printed tape.
LAYOUT	Layout	<ul style="list-style-type: none"> • Displays a rough layout of the tape.
◀	Left	<ul style="list-style-type: none"> • Moves the cursor to the left.
MEMORY	Memory	<ul style="list-style-type: none"> • Displays a menu of memory functions.
OFF	Off	<ul style="list-style-type: none"> • Switches power off.
ON	On	<ul style="list-style-type: none"> • Switches power on.
PRESETS	Presets	<ul style="list-style-type: none"> • Displays a menu of preset items.
PRINT	Print	<ul style="list-style-type: none"> • Executes the print operation. • Immediately after switching power on, outputs a demo print.
↲	Return	<ul style="list-style-type: none"> • Inputs a newline mark.
▶	Right	<ul style="list-style-type: none"> • Moves the cursor to the right.
SET	Set	<ul style="list-style-type: none"> • Executes the currently selected function. • Specifies "Yes" for a Yes/No dialog. • Immediately after switching power on, recalls the text that was on the display when power was last switched off.
SET UP	Set up	<ul style="list-style-type: none"> • Displays the set up menu.
SHIFT	Shift	<ul style="list-style-type: none"> • Shifts the keyboard for input of one alpha-character that is opposite that of the current keyboard setting (upper-case or lower-case). • Shifts the keyboard for input of punctuation symbols marked on the number keys. • The indicator SHIFT indicates that the keyboard is shifted. • SHIFT◀ makes the cursor jump to the next newline mark or block mark to the left. • SHIFT▶ makes the cursor jump to the next newline mark or block mark to the right.
SIZE	Size	<ul style="list-style-type: none"> • Displays a menu of character sizes.
SPACE	Space	<ul style="list-style-type: none"> • Inserts a space in text.
STYLE	Style	<ul style="list-style-type: none"> • Displays a menu of character styles (normal, outline, shadow, raised).
SYMBOL	Symbol	<ul style="list-style-type: none"> • Displays a menu of symbols.
▲	Up	<ul style="list-style-type: none"> • Moves highlighting in a menu up.

Troubleshooting

	Problem	Possible Cause	Action
Power	<ul style="list-style-type: none"> • No display when power is switched on 	• Wrong contrast setting	• Use contrast dial to adjust contrast.
		• Dead batteries	• Change batteries.
		• Batteries not loaded correctly.	• Load batteries correctly.
		• Adaptor not connected correctly.	• Plug in the AC adaptor correctly.
Input	<ul style="list-style-type: none"> • Cannot input characters. 	<ul style="list-style-type: none"> • FUNC was pressed, and unit is waiting for pressing of next key. 	<ul style="list-style-type: none"> • Press ESC to clear function indicator from display.
Printing	<ul style="list-style-type: none"> • No tape comes out when PRINT is pressed. 	• Tape cartridge compartment cover is not closed securely.	• Close the tape cartridge compartment cover securely.
		• Out of tape	• Load a new tape cartridge.
		• Tape is jammed.	<ul style="list-style-type: none"> • Remove the tape cartridge, pull out the jammed tape with your fingers, and cut it off. Avoid touching the tape cutter, the tape outlet, and the tape itself while printing is in progress.
		• Low battery power	• Change batteries.
	<ul style="list-style-type: none"> • Tape comes out, but nothing is printed. 	<ul style="list-style-type: none"> • Only blank spaces are input. 	<ul style="list-style-type: none"> • Input other text.
	<ul style="list-style-type: none"> • Printing is not clear. 	• Low battery power	• Change batteries.
		• Printing density is not set correctly.	• Adjust the printing density.
		• The tape cartridge is not loaded correctly.	• Load the tape cartridge correctly.
		• Printer head or roller is dirty.	• Clean the printer head and roller.
	<ul style="list-style-type: none"> • Ink ribbon comes out with tape. 	<ul style="list-style-type: none"> • The tape cartridge was loaded with too much slack in the ink ribbon. 	<ul style="list-style-type: none"> • Remove the tape cartridge and take up any slack, taking care not to break the ribbon. Reload the tape cartridge. If the ink ribbon breaks, load a new tape cartridge.

	Problem	Possible Cause	Action
Tape Cutter	• Tape does not cut.	• Tape cutter is dull or damaged.	• Take your Label Printer to an authorized CASIO service provider to have the cutter replaced.
	• Text is cut off.	<ul style="list-style-type: none"> • Auto Feed is switched off. • End of tape 	<ul style="list-style-type: none"> • Press FUNC FEED to feed tape before cutting it. • Load a new tape cartridge.
Tape Adhesion	• Tape does not stick.	• Paper backing is still in place.	• Remove paper backing from tape.
		• Bad surface	• Tape will not stick on coarse, wet, oily, or soiled surfaces.

Messages

Message	Meaning	Action
NO DATA!	<ul style="list-style-type: none"> There is no data stored in memory. 	<ul style="list-style-type: none"> Store some data before trying to perform this operation.
NOT ENOUGH MEMORY!	<ul style="list-style-type: none"> There is not enough unused memory to perform the operation. 	<ul style="list-style-type: none"> Reduce the size of the data you are trying to store or delete data already stored to make room for the new data.
NOW PRINTING	<ul style="list-style-type: none"> Printer is performing printing operation. 	<ul style="list-style-type: none"> Wait for printing operation to end.
NOW PRINTING CUT THEN [SET]!	<ul style="list-style-type: none"> Printing is paused for a tape cut operation. 	<ul style="list-style-type: none"> Cut the tape and then press SET to resume printing.
SAME NAME ALREADY USED!	<ul style="list-style-type: none"> The name you are using when storing data in memory is already used. 	<ul style="list-style-type: none"> Use a different name or delete the data in memory this is under the same name.
TEXT DOES NOT FIT!	<ul style="list-style-type: none"> Text is too long to fit in the specified tape length. 	<ul style="list-style-type: none"> Reduce the size of the characters or shorten the text.
TOO MANY LINES!	<ul style="list-style-type: none"> Text has too many lines to fit on tape. 	<ul style="list-style-type: none"> Reduce the number of lines.
TOO MANY LINES TO FRAME!	<ul style="list-style-type: none"> Text has too many line to fit into a frame. 	<ul style="list-style-type: none"> Reduce line number of lines.
WHERE?	<ul style="list-style-type: none"> Unit is asking for the starting point of the operation you are performing. 	<ul style="list-style-type: none"> Use ◀ and ▶ to move the cursor to the starting point and press SET to specify it.
CANNOT COMBINE!	<ul style="list-style-type: none"> Previously input text cannot be combined with new input text. 	<ul style="list-style-type: none"> Perform the operation and input new text.
CANNOT USE 6mm	<ul style="list-style-type: none"> Current operation cannot be performed using 6mm tape. 	<ul style="list-style-type: none"> Change to a different tape size.
CLEAR INPUT TEXT!	<ul style="list-style-type: none"> The operation you have selected will clear the text you previously input. 	<ul style="list-style-type: none"> Proceed with the operation (and clear the text), or press ESC to abort without clearing anything.
DATA ERROR! RESET!	<ul style="list-style-type: none"> Memory data has become corrupted for some reason. 	<ul style="list-style-type: none"> Reset the unit. Note that the reset operation deletes all data in memory.
INITIAL?	<ul style="list-style-type: none"> Memory initialization is required. 	<ul style="list-style-type: none"> Initialize memory.
INPUT TEXT!	<ul style="list-style-type: none"> Unit is requesting input of text. 	<ul style="list-style-type: none"> Input the text you want to print.
LOW BATTERY	<ul style="list-style-type: none"> Battery power is low. 	<ul style="list-style-type: none"> Replace batteries or use AC adapter.
MEMORY FULL!	<ul style="list-style-type: none"> Memory is full and data cannot be stored. 	<ul style="list-style-type: none"> Delete data you no longer need and make room for new data.
OUT OF FORMAT RANGE!	<ul style="list-style-type: none"> Input text exceeds the range of the selected format. 	<ul style="list-style-type: none"> Shorten text or use a different format.

Message	Meaning	Action
ERROR!	<ol style="list-style-type: none"> The number of lines in the input text is greater than the number of lines in the format being specified. There is a character size indicator inside the text for which a format is being specified. 	<ol style="list-style-type: none"> Reduce the number of lines in the text or use a different format. Delete the character size indicator from the text before specifying a format.

Initial Settings

There are two types of initial settings: those that are set automatically each time you switch power on, and those that are set whenever you reset Label Printer memory. The following table shows the initial settings in each case.

Item	Power On	Reset
Display	Cleared*	Cleared
Memory	Retained	Cleared
Horz/Vert	Horz	Horz
Pitch	None	None
Side Space	Yes	Yes
Block Spacing	Narrow	Narrow
Insert/Overwrite	Insert	Insert
Density	Retained	3
Sound	On	On
Character Attributes	None	None
Style	Normal	Normal
Form	Normal	Normal
Auto Feed	Long	Long
Font	Serif	Serif
Character Size	Auto Fit	Auto Fit
Language	Retained	English
Length Unit	Retained	cm

* Display is cleared, but last input data is retained in memory. To recall last input data, press **SET**.

Symbols, Illustrations and Frames

- Symbols

- Illustrations



- Letters

$\alpha \beta \gamma \delta \varepsilon \zeta \eta \theta \iota \kappa \lambda \mu \nu \xi \sigma \pi \rho \sigma$
 $\tau \upsilon \phi \chi \psi \omega 2 3 4 5 6 7 8 9 2^3 \frac{1}{2} \frac{1}{4} \frac{1}{3}^a \sigma$

- Old English

A B C D E F G H I J K L M N O P Q R
S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9

- Frames



Preset (Auto) Layouts

Menu Indicator	Settings		Blocks				
	Element	Dimension	Block Name	Length	Character Sizes	Attributes	Contents
VHS (1)	Tape Length	14.7 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	8.4	2 × 2 (JUST)	BOX.SH	Title, etc.
	Side Spaces	0.5	BLOCK 3	0.4	1 × 1 (JUST)	NONE	Illust
	–	–	BLOCK 4	4.2	1 × 1 (JUST)	UL	Comments
VHS (2)	Tape Length	14.7 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	13	1 × 2 (JUST)	BOX	Title
	Side Spaces	0.5	–	–	–	–	–
VHS-C (1)	Tape Length	8.8 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	4.7	2 × 2 (JUST)	BOX.SH	Title
	Side Spaces	0.5	BLOCK 3	2.4	1 × 1 (JUST)	UL	Comments
VHS-C (2)	Tape Length	8.8 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	7.1	1 × 1 (JUST)	BOX	Title
	Side Spaces	0.5	–	–	–	–	–
8mm (1)	Tape Length	9.7 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	5.4	2 × 2 (JUST)	BOX.SH	Title
	Side Spaces	0.5	BLOCK 3	2.6	1 × 1 (JUST)	UL	Comments

Menu Indicator	Settings		Blocks				
	Element	Dimension	Block Name	Length	Character Sizes	Attributes	Contents
8mm (2)	Tape Length	9.7 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	8.0	1 × 1 (JUST)	BOX	Title
	Side Spaces	0.5	—	—	—	—	—
BETA (1)	Tape Length	13.9 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	7.6	2 × 2 (JUST)	BOX.SH	Title
	Side Spaces	0.5	BLOCK 3	0.4	1 × 1 (JUST)	NONE	Illust
	—	—	BLOCK 4	4.2	1 × 1 (JUST)	UL	Comment
BETA (2)	Tape Length	13.9 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	12.2	1 × 2 (JUST)	BOX	Title
	Side Spaces	0.5	—	—	—	—	—
CASSETTE (1)	Tape Length	9.8 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	5.7	2 × 2 (JUST)	BOX.SH	Title
	Side Spaces	0.5	BLOCK 3	2.4	1 × 1 (JUST)	UL	Comments
CASSETTE (2)	Tape Length	9.8 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	8.1	1 × 1 (JUST)	BOX	Title
	Side Spaces	0.5	—	—	—	—	—

Menu Indicator	Settings		Blocks				
	Element	Dimension	Block Name	Length	Character Sizes	Attributes	Contents
MD (1)	Tape Length	7.0 cm	BLOCK 1	6.0	2 × 2 (JUST)	BOX.SH	Title
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–
MD (2)	Tape Length	7.0 cm	BLOCK 1	6.0	1 × 1 (JUST)	BOX	Title
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–
NAME (1)	Tape Length	Undefined	BLOCK 1	Undefined	1 × 1 (JUST)	UL	Comments
	Block Spacing	NONE	BLOCK 2	Undefined	2 × 2 (JUST)	BOX	Name
	Side Spaces	0.5	–	–	–	–	–
NAME (2)	Tape Length	Undefined	BLOCK 1	Undefined	1 × 1 (JUST)	BOX	Name
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–
ADDRESS (1)	Tape Length	Undefined	BLOCK 1	Undefined	Line 1: S1 × 2 Line 2: S1 × 1 Line 3: S1 × 1 Line 4: S1 × 1	NONE	Name Address Address Address
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–

Menu Indicator	Settings		Blocks				
	Element	Dimension	Block Name	Length	Character Sizes	Attributes	Contents
ADDRESS (2)	Tape Length	Undefined	BLOCK 1	Undefined	Line 1: 1 × 2 Line 2: 1 × 1	NONE	Name Address
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	
SPINE (1)	Tape Length	17.9 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	10.5	2 × 2 (JUST)	BOX.SH	Title
	Side Spaces	0.5	BLOCK 3	0.4	1 × 1 (JUST)	NONE	Illust
	–		BLOCK 4	5.3	1 × 1 (JUST)	NONE	Comments
SPINE (2)	Tape Length	8.0 cm	BLOCK 1	0.7	2 × 2 (JUST)	NONE	Illust
	Block Spacing	NONE	BLOCK 2	6.3	2 × 2 (JUST)	BOX.SH	–
	Side Spaces	0.5	–	–	–	–	–
FLOPPY 1	Tape Length	7.1 cm	BLOCK 1	6.1	2 × 2 (JUST)	BOX.SH	Comments
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–
FLOPPY 2	Tape Length	7.1 cm	BLOCK 1	6.1	1 × 1 (JUST)	BOX	Comments
	Block Spacing	NONE	–	–	–	–	–
	Side Spaces	0.5	–	–	–	–	–

- When the contents of a label indicates “Illust”, we recommend that only one illustration be input.

Application Examples

The following are a number of sample label layouts, along with information about how you can produce them.



1. ILLUST ◀▶ (Select SET
2. BLOCK (block)
3. CAPS (CAPS Mode)
SIZE ▲ ▼ (select "1 x 2") SET SET SET
4. A SPACE P R E S E N T ↪ F O R SPACE Y O U
5. ILLUST ◀▶ (Select SET
6. EFFECT ▲ ▼ (Select "BOX") SET
"FROM?" ◀▶ (Move cursor to "A") SET
"TO?" (Move cursor to the after "YOU") SET
7. ◀▶ (Move cursor to end of text) BLOCK
8. ILLUST ◀▶ (Select SET
9. PRINT



DIANA'S HOUSE
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1. PRESET ▲ ▼ (Select "LAYOUT") SET
2. PRESET ▲ ▼ (Select "VIDEO") SET
3. ▲ ▼ (Select "VHS") SET
4. ◀▶ (Select "1") SET
5. CAPS (CAPS Mode)
6. D I A N A SYMBOL (Select "SYMBOLS") SET ◀▶ (Select "'") SET S SPACE
B I R T H D A Y SPACE P A R T Y SET
7. D I A N A SYMBOL (Select "SYMBOLS") SET ◀▶ (Select "'") SET S SPACE
H O U S E SET
8. J U N E SPACE 1 4 SYMBOL (Select "SYMBOLS") SET ◀▶ (Select ",") SET
SPACE 1 9 9 5 SET
9. DEL (Delete previous illustration)
10. ILLUST ◀▶ (Select SET SET
11. DEL (Delete previous illustration)
12. ILLUST ◀▶ (Select SET SET
13. DEL (Delete previous illustration)
14. ILLUST ◀▶ (Select SET SET
15. ▲ ▼ (Select "PRINT") SET (Prints) SET

Specifications

Model: KL-7000

Input

Keyboard Layout: Typewriter (QWERTY)

Character Types

Alpha (English and other languages): 151

Numbers: 10

Symbols: 153

Illustrations: 50

Display

Type: 48 × 32-dot liquid crystal display

Number of columns: 6

Character matrix: 16 × 8-dot

Printing

Type: 64-dot thermal transfer

Speed: Approximately 6.76mm/second

Width: 4mm (6mm tape) or 8mm (other tape)

Character Matrix: 24 × 24-dot (normal); 16 × 16-dot (s)

Character fonts: Serif, sans-serif

Character styles: Normal, outline, shadow, raised

Character effects: Shade, underline, box

Character sizes: 1×1, 1×2, 1×3, 2×1, 2×2, 2×3, L2×3, S1×1, S1×2, S1×3, S2×1, S2×2, S2×3

Character pitch: None (0mm), Narrow (0.5mm), Wide (1.0mm)

Number of lines: 1 or 2 (6mm tape); 1 to 4 (other tapes)

Memory

Text: Up to approximately 326 characters

General

Main power supply: Eight AA-size batteries (battery life = approximately 2 tape cartridges (continuous printing)) or optional AD-A95100 AC adaptor

Memory back-up battery: One CR2032 lithium battery (battery life = approximately one year)

Power consumption: 9W

Auto Power Off: Approximately six minutes after last key operation.

Dimensions: 48.8 H × 174 W × 224.8 mm D
(2" H × 6⁷/₈" W × 8⁷/₈" D)

Weight: 513 g (1.1 lbs) (excluding batteries)

Ambient Temperature: 10°C~35°C (50°F~95°F)

CASIO

®

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